

10/089503

29 MAR 2002

SEQUENCE LISTING

<110> Universitätsklinikum Freiburg

<120> THE PRV-1 GENE AND USE THEREOF

<130> E980930

<140> PCT/EP00/09594

<141> 2000-09-29

<150> DE 199 47 010.3

<151> 1999-09-30

<160> 10

<170> PADAT Sequenzmodul, Version 1.0

<210> 1

<211> 1600

<212> DNA

<213> homo sapiens

<220>

<223>

<400> 1

aaaagcagaa	agagattacc	agccacagac	gggtcatgag	cgcggattta	ctgctggccc	60
tcctgggtt	catcctccca	ctgccaggag	tgcaggcgct	gctctgccag	tttgggacag	120
ttcagcatgt	gtggaaggtg	tccgacctgc	cccggaatg	gacccttaag	aacaccagct	180
gcgacagcgg	cttgggtgc	caggacacgt	tgatgctcat	tgagagcgg	ccccaaagtga	240
gcctgggtct	ctccaagggc	tgcacggagg	ccaaggacca	ggagccccgc	gtcaactgagc	300
accggatggg	ccccggcctc	tccctgatct	cctacacctt	cgtgtgccgc	caggaggact	360
tctgcaacaa	cctcgtaaac	tccctccgc	tttgggcccc	acagcccca	gcagacccag	420
gatccttgag	gtgcccagtc	tgcttgctta	tggaaggctg	tctggagggg	acaacagaag	480
agatctgccc	caaggggacc	acacactgtt	atgatggcct	cctcaggctc	aggggaggag	540
gcattttctc	caatctgaga	gtccaggat	gcatccccca	gccaggttgc	aacctgctca	600
atggacaca	ggaaattggg	cccggtggta	tgactgagaa	ctgcaatagg	aaagattttc	660
tgacctgtca	tcgggggacc	accattatga	cacacggaaa	cttggctcaa	gaacccactg	720
attggaccac	atcgaatacc	gagatgtgcg	aggtggggca	ggtgtgtcag	gagacgctgc	780
tgctcataga	tgtaggactc	acatcaaccc	tggtggggac	aaaaggctgc	agcactgttg	840

gggctcaaaa ttcccagaag accaccatcc actcagcccc tcctgggtg cttgtggcct	900
cctataccca cttctgtcc tcggacctgt gcaatagtgc cagcagcagc agcggtctgc	960
tgaactccct ccctcctcaa gctgcccctg tcccaggaga ccggcagtgt cctacctgtg	1020
tgcagccct tggAACCTGT tcaagtggct ccccccgaat gacctgcccc aggggcgcca	1080
ctcattgtta tcatgggtac attcatctct caggaggtgg gctgtccacc aaaatgagca	1140
ttcagggctg cgtggcccaa ccttccagct tcttggaa ccacaccaga caaatcggga	1200
tcttctctgc gcgtgagaag cgtgatgtgc agcctcctgc ctctcagcat gagggaggtg	1260
gggctgaggg cctggaggtct ctcaattggg ggggtgggct ggcactggcc ccagcgctgt	1320
ggtggggagt ggtttgcctt tcttgctaac tctattaccc ccacgattct tcaccgctgc	1380
tgaccaccca cactcaacct ccctctgacc tcataaccta atggccttgg acaccagatt	1440
ctttcccat tctgtccatga atcatcttcc ccacacacaa tcattcatat ctactcacct	1500
aacagcaaca ctggggagag cctggagcat ccggacttgc cctatggag aggggacgct	1560
ggaggagttt ctgcattgtat ctgataatac agaccctgtc	1600

<210> 2  
 <211> 437  
 <212> PRT  
 <213> homo sapiens

<400> 2

Met Ser Ala Val Leu Leu Leu Ala Leu Leu Gly Phe Ile Leu Pro Leu	
1 5 10 15	
Pro Gly Val Gln Ala Leu Leu Cys Gln Phe Gly Thr Val Gln His Val	
20 25 30	
Trp Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys Asn Thr Ser	
35 40 45	
Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met Leu Ile Glu Ser	
50 55 60	
Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly Cys Thr Glu Ala Lys	
65 70 75 80	
Asp Gln Glu Pro Arg Val Thr Glu His Arg Met Gly Pro Gly Leu Ser	
85 90 95	
Leu Ile Ser Tyr Thr Phe Val Cys Arg Gln Glu Asp Phe Cys Asn Asn	
100 105 110	
Leu Val Asn Ser Leu Pro Leu Trp Ala Pro Gln Pro Pro Ala Asp Pro	
115 120 125	
Gly Ser Leu Arg Cys Pro Val Cys Leu Ser Met Glu Gly Cys Leu Glu	
130 135 140	
Gly Thr Thr Glu Glu Ile Cys Pro Lys Gly Thr Thr His Cys Tyr Asp	
145 150 155 160	
Gly Leu Leu Arg Leu Arg Gly Gly Ile Phe Ser Asn Leu Arg Val	
165 170 175	

Gln Gly Cys Met Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln  
 180 185 190  
 Glu Ile Gly Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe  
 195 200 205  
 Leu Thr Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala  
 210 215 220  
 Gln Glu Pro Thr Asp Trp Thr Ser Asn Thr Glu Met Cys Glu Val  
 225 230 235 240  
 Gly Gln Val Cys Gln Glu Thr Leu Leu Ile Asp Val Gly Leu Thr  
 245 250 255  
 Ser Thr Leu Val Gly Thr Lys Gly Cys Ser Thr Val Gly Ala Gln Asn  
 260 265 270  
 Ser Gln Lys Thr Thr Ile His Ser Ala Pro Pro Gly Val Leu Val Ala  
 275 280 285  
 Ser Tyr Thr His Phe Cys Ser Ser Asp Leu Cys Asn Ser Ala Ser Ser  
 290 295 300  
 Ser Ser Val Leu Leu Asn Ser Leu Pro Pro Gln Ala Ala Pro Val Pro  
 305 310 315 320  
 Gly Asp Arg Gln Cys Pro Thr Cys Val Gln Pro Leu Gly Thr Cys Ser  
 325 330 335  
 Ser Gly Ser Pro Arg Met Thr Cys Pro Arg Gly Ala Thr His Cys Tyr  
 340 345 350  
 Asp Gly Tyr Ile His Leu Ser Gly Gly Leu Ser Thr Lys Met Ser  
 355 360 365  
 Ile Gln Gly Cys Val Ala Gln Pro Ser Ser Phe Leu Leu Asn His Thr  
 370 375 380  
 Arg Gln Ile Gly Ile Phe Ser Ala Arg Glu Lys Arg Asp Val Gln Pro  
 385 390 395 400  
 Pro Ala Ser Gln His Glu Gly Gly Ala Glu Gly Leu Glu Ser Leu  
 405 410 415  
 Thr Trp Gly Val Gly Leu Ala Leu Ala Pro Ala Leu Trp Trp Gly Val  
 420 425 430  
 Val Cys Pro Ser Cys  
 435

<210> 3  
 <211> 24  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> 5'-end of PRV-1-sequence

<400> 3

aaaagcagaa agagattacc agcc

24

<210> 4  
 <211> 24  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Antisense-Molecule

<400> 4

ggctggtaat ctctttctgc tttt

24

<210> 5

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acids 34-46 of PRV-1

<400> 5

Lys Val Ser Asp Leu Pro Arg Gln Trp Thr Pro Lys Asn  
1 5 10

<210> 6

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> amino acids 391-405 of PRV-1

<400> 6

Ser Ala Arg Glu Lys Arg Asp Val Gln Pro Pro Ala Ser Gln His  
1 5 10 15

<210> 7

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> RT-Primer

<400> 7

attaggttat gaggtcagag ggaggtt

27

<210> 8

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> sense-Primer

<400> 8

gcagaaagag attaccagcc acagacgg

28

<210> 9

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> antisense-Primer

<400> 9

gaatcgtggg ggtaatagag ttagcagg

28

<210> 10

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> probe

<400> 10

ttcttggtga accacaccag acaaatcgg

29